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(21)Application number : 10-116494 (71)Applicant : KANEGAFUCHI CHEM IND CO LTD

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(54) PRODUCTION OF AROMATIC CHLORINATED HYDROCARBON

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain an aromatic chlorinated hydrocarbon compound useful as a cation polymerization initiator by using a specific compound, a specified solvent which cannot be chlorinated, an aqueous metal hypochlorite salt solution, and a protonic acid as raw materials.



I

SOLUTION: This method for producing an aromatic chlorinated hydrocarbon compound of the formula: $C_nH_m(CR_1R_2Cl)_k$ [(n) is 6-12; (m) is 0-9; (k) is 1-10; R₁ and R₂ are each a (substituted) monovalent 1-5C aliphatic saturated hydrocarbon] (for example, a compound of formula II) comprises using (A) a compound of the formula: $C_nH_m(CHR_1R_2Cl)_k$ (for example, a compound of formula I), (B) a solvent [preferably an aromatic solvent of the formula: $Z(R_3)_y$ [Z is an aromatic hydrocarbon; R₃ is C or a monovalent substituent comprising a halogen; (y) is 1-3] whose ≥ 95 wt.% is not chlorinated, even when mixed with hypochlorous acid having a chlorine concentration of ≥ 0.4 mol/kg



II

determined by a titration method and subsequently stirred in an ice bath for 2 hr, (C) an aqueous metal hypochlorite salt solution and (D) a protonic acid as raw materials.

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